MATERIAL SAFETY DATA SHEET

COBALT CHLORIDE, 6-HYDRATE Revised: 05/15/08
CAROLINA BIOLOGICAL Replaces: 07/10/07
Printed: 05/20/08

1. PRODUCT DESCRIPTION

Product Name: Cobalt Chloride, 6-hydrate

Product Code(s): 85-4950, 85-4960, 84-0622, 84-0900

Size: 125 g, 500 g Chemical Name: Cobalt Chloride

CAS Number: 7791-13-1 Formula: $CoCl_2.6H_2O$

Synonyms: Cobalt (II) chloride, hexahydrate: cobalt dichloride

Distributor: Carolina Biological Supply Company

2700 York Road

Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components:

Cobalt chloride, 6-hydrate(CAS#7791-13-1) 98-100%

TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Harmful if inhaled. May be fatal if swallowed.

Potential Health Effects: Eyes: May cause irritation. Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): Not Flammable

NFPA Rating: Health: 2 Fire: 0

Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: No information available

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

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Unusual Fire and Explosion Hazards: None identified

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Store in a secure poison area.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded. Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes

Special: No Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times. Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 237.93

Melting Point: 87C

Boiling Point: No information available Vapor Pressure: No information available

Vapor Density(Air=1): No information available

Specific Gravity(H2O=1): 1.92

Percent Volatile by Volume: 0 (21 C)

Evaporation Rate(H2O=1): No information available

Solubility in Water: appreciable (>10%)

Appearance and Odor: pink to red powder. odorless.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: moisture

Incompatibility(Materials to Avoid): strong oxidizing agents, alkali

metals, ammonia

Hazardous Decomposition Products: hydrogen chloride

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Oral Rat LD50: 766 mg/kg

Effects of Overexposure:

Acute: See section 3 Chronic: lung damage

Conditions Aggravated by Overexposure: Target Organs: respiratory system, skin

Primary Route(s) of Entry: ingestion, inhalation, eye contact, skin

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12. ECOLOGICAL DATA

EPA Waste Numbers: none

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Non-regulated material

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

SARA Sec. 313 SARA EHS Chemicals CERCLA **RCRA** Name Chemical List Category Sec. 103 Sec. 302 Product or Sec. RQ lbs. Components TPQ 261.33 Cobalt chloride 1 No

6-hydrate No Yes Yes

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossarv

ACGIH......American Conference of Governmental Industrial Hygienists CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP......National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL..... Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

TLV.....Threshold Limit Value

TSCA.....Toxic Substances Control Act